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Considered 103 MEC

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 10 CONNECT IS E1 RC AT 11 DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L10 563947 SEA FILE=REGISTRY ABB=ON PLU=ON 46.150.18/RID AND N/ELS AND

O>1 AND NC=1 AND NR=1 NOT PMS/CI

L12 30 SEA FILE=REGISTRY SUB=L10 SSS FUL L5

13 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND (SUBSTRATE OR SOLID OR SUPPORT OR COVALINK OR DNA BIND OR GLASS OR POYLSTYR? OR

MICROARRAY OR MICRO ARRAY OR IMMOBILIZ?)

=> d ibib abs hitstr 114 1-13

L14 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2003:58374 HCAPLUS

DOCUMENT NUMBER:

138:129079

TITLE:

Fast-writable and precision-writable high-capacity

optical storage media

INVENTOR(S):

Lehmann, Urs; Aeschlimann, Peter; Sutter, Peter;

Schmidhalter, Beat; Budry, Jean-Luc; Spahni, Heinz Ciba Specialty Chemicals Holding Inc., Switz.

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

. 1

PARTIE ACC. NON. COO

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007296	A1	20030123	WO 2002-EP7434	20020704

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO::

CH 2001-1516

A 20010713

CH 2001-1516
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1

The invention relates to an optical recording medium, comprising a substrate and a recording layer, wherein the recording layer comprises a compd. of I (R1-13 = H, C1-24 alkyl, C2-24 alkenyl, alkenyl, C3-24 cycloalkyl, alkenyl, C7-24 aralkyl, aryl, C4-12 heteroaryl, etc.; Xm- = inorg., org., organometallic anion; Yn+ = proton or a metal, ammonium or phosphonium cation; m, n = 1-5; p, q = 0.2-6). Generally the optical recording medium according to the invention addnl. comprises a reflecting layer. The recording media according to the invention exhibit high sensitivity and good playback characteristics, esp. at high recording and playback speeds. The light stability is also excellent.

IT 489437-97-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fast-writable and precision-writable high-capacity optical storage media)

RN 489437-97-0 HCAPLUS

CN L-Alanine, N-ethyl-N-(4-formylphenyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER OF 13 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2002:669731 HCAPLUS

DOCUMENT NUMBER:

137:202707

TITLE:

A process for producing uniform multilayer second

Roberts

order nonlinear optical polymeric thin polar films Roberts, M. Joe; Lindsay, Geoff A.; Wynne, Kenneth J.;

Chafin, Andrew P.; Stenger-Smith, John D.; Zarras,

Peter; Yee, Rena Y.; Holloins, Richard A.

PATENT ASSIGNEE(S):

The United States of America as Represented by the

Seceretary of the Navy, USA

SOURCE:

Statutory Invent. Regist., 13 pp.

CODEN: SRXXEV

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2046 H1 20020903 US 1997-956017 19971022

PRIORITY APPLN. INFO.: US 1997-956017 19971022

AB The title films incorporate aligned non-centrosym. chromophores each having an electron donor end and an electron acceptor end, and the tender of the second second

having an electron donor end and an electron acceptor end, and the title process, i.e., alternating polyelectrolyte deposition process, comprises steps of: (1) dipping a substrate (T), e.g., a glass slide, into a first aq. soln. (S1) contg. an NLO-active cationic polymer (A) and removing T from S1 after designed time, (2) cleaning and drying T, (3) dipping the dried T into a second aq. soln. (S2) contg. an anionic polymer (B) and removing T from S2, (4) cleaning and drying T again, (a) repeating the steps 1-4 so that a predetd. plurality of alternating polycation and polyanion layers are built up uniformly on the surface of T. One example of A was prepd. by reacting poly(epichlorohydrin) with 4-picoline and 4-(N-ethyl-N-Et acetalyl)aminobenzaldehyde substantially, and one example of B was poly(sodium 4-styrenesulfonate).

IT 219807-88-2DP, reaction product with poly(epichlorohydrin) 4-picoline derivs.

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(fabrication of uniform multilayer second order nonlinear optical polymeric thin polar films)

RN 219807-88-2 HCAPLUS

CN Glycine, N-ethyl-N-(4-formylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

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CHO
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        Et
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THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS 10 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L14 ANSWER (3) OF 13 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: -2002:315405 HCAPLUS

DOCUMENT NUMBER: 136:321706

TITLE:

Method of assaying pyrrole-containing biological

compounds

INVENTOR(S):

Brady, Jeffrey D.; Robins, Simon P.

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S.

Ser. No. 679,141. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. _____ US 2002048779 Α1 20020425 US 2001-970328 20011003

US 2000-679141 A2 20001003

PRIORITY APPLN. INFO.: OTHER SOURCE(S):

MARPAT 136:321706

This invention concerns a method of assaying pyrrole-contg. biol. compds. and chem. compns. that can be used in the method. The method involves contacting a biol. compd. with one of: (a) a bound or bind-able derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a detectable mol. which forms a complex with the reaction product; or (b) a derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a bound binding agent specific to the biol. compd. in the reaction product; or (c) a binding agent specific to the biol. compd., followed by exposure to a derivatizing agent which forms a reaction product with the biol. compd., and detg. the amt. of bound biol. compd. There is also provided a method of prepg. an antigen.

IT 27425-56-5P, .beta.-Alanine, N-(4-formylphenyl)-N-methyl-RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (method of assaying pyrrole-contg. biol. compds.)

RN 27425-56-5 HCAPLUS

.beta.-Alanine, N-(4-formylphenyl)-N-methyl- (9CI) (CA INDEX NAME) CN

L14 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:276274 HCAPLUS

DOCUMENT NUMBER: 136:275711

TITLE: Method of assaying pyrrole-containing biological

compounds

INVENTOR(S): Brady, Jeffrey D.; Robins, Simon P.

PATENT ASSIGNEE(S): Rowett Research Institute, UK

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

P.F.	ATENT	NO.		KI	ND	DATE			A	PPLI	CATI	ON N	ο.	DATE				
	2002					2002			W	0 20	01-G	B437	- - 7	2001	1002			
· WC	2002	0294	09	A	3	2002	0801	-										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN.	
		co,	CR,	CU,	CZ,	DΕ,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH.	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JΡ,	ΚE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR.	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH.	PL.	
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG.	
		US,	UZ,	VN,	ΥU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM	•	
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR.	BF.	
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	-	~
AU	2001	0939	64	A.	5	2002	0415		Αl	J 20	01-9	3964	•	2001			Doron	\mathcal{I}
PRIORIT	Y APP	LN.	INFO	.:										2000	1003		Dona	
									WO 2					2001			1	

OTHER SOURCE(S): MARPAT 136:275711

AB The invention concerns a method of assaying pyrrole-contg. biol. compds. and chem. compns. that can be used in the method. The method involves contacting a biol. compd. with one of: (a) a bound or bind-able derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a detectable mol. which forms a complex with the reaction product; or (b) a derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a bound binding agent specific to the biol. compd. in the reaction product; or (c) a binding agent specific to the biol. compd., followed by exposure to a derivatizing agent which forms a reaction product with the biol. compd., and detg. the amt. of bound biol. compd. There is also provided a method of prepg. an antigen.

IT 27425-56-5P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (method of assaying pyrrole-contg. biol. compds.)

RN 27425-56-5 HCAPLUS

.beta.-Alanine, N-(4-formylphenyl)-N-methyl- (9CI) CN (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \\ \mid & \\ \mid & \\ \text{HO}_2\text{C}-\text{CH}_2-\text{CH}_2-\text{N} \\ \end{array}$$

L14 ANSWER (5\OF 13 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2000:829374 HCAPLUS

DOCUMENT NUMBER:

134:23432

TITLE:

Silver halide light sensitive emulsion layer having

enhanced photographic sensitivity

INVENTOR(S):

Farid, Samir Y.; Gould, Ian R.; Godleski, Stephen A.;

Lenhard, Jerome R.; Muenter, Annabel A.; Zielinski,

Paul A.

PATENT ASSIGNEE(S):

Eastman Kodak Company, USA

SOURCE:

U.S., 52 pp., Cont.-in-part of U.S. Ser. No. 900,694,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English 2

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6153371	Α	20001128	US 1998-118552	19980717
JP 11102044	A2	19990413	JP 1998-211019	19980727
PRIORITY APPLN. INFO.	:		US 1997-900694 B2	19970725

OTHER SOURCE(S): MARPAT 134:23432

This invention comprises a photog. element comprising a support and at least one silver halide emulsion layer in which the silver halide is sensitized with a compd. Q-XY(Q = atoms forming chromophore conjugatedwith XY; X = electron donor group; and Y = leaving group but H). Preferably, the radical X.cntdot. has an oxidn. potential <-0.7 V.

ΙT 219807-88-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(silver halide light sensitive emulsion layer having enhanced photog. sensitivity)

RN 219807-88-2 HCAPLUS

CN Glycine, N-ethyl-N-(4-formylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1999:168177 HCAPLUS

24

DOCUMENT NUMBER: 130:312191

TITLE: Ordered Films by Alternating Polyelectrolyte

Deposition of Cationic Side Chain and Anionic Main

Chain Chromophoric Polymers

Lindsay, G. A.; Roberts, M. J.; Chafin, A. P.; AUTHOR(S):

Hollins, R. A.; Merwin, L. H.; Stenger-Smith, J. D.;

Yee, R. Y.; Zarras, P.; Wynne, K. J.

CORPORATE SOURCE:

U. S. Navy, China Lake, CA, 93555, USA

SOURCE:

Chemistry of Materials (1999), 11(4), 924-929

CODEN: CMATEX; ISSN: 0897-4756

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

Using the method of aq. soln. alternating polyelectrolyte deposition (APD), second-order nonlinear optical (NLO) polymer films were prepd., in which both polymers are NLO-active. Films were prepd. by alternately coating a solid substrate with an NLO-active side chain polycation and an NLO-active main chain polyanion. This polyanion comprises .alpha.-cinnamoyl chromophores in the syndioregic configuration (an accordion polymer). The polycation was derived from poly(epichlorohydrin) that was completely substituted with a stilbazolium The films were transparent and had no texture when obsd. by polarized microscopy. The increase in intensity of the second harmonic (SH) signal generated in the films was quadratic with each mol. layer to 20 layers; beyond that, the SH signal intensity satd. as more layers were added.

219807-88-2DP, reaction products with picoline-modified IT poly(epichlorohydrin)

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(cationic NLO polymer; prepn. and alternating deposition of cationic side chain and anionic main chain chromophoric NLO polyelectrolytes)

219807-88-2 HCAPLUS RN

CN Glycine, N-ethyl-N-(4-formylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

IT 219807-88-2P, Ethyl N-Ethyl-N-(4-formylphenyl)glycine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and alternating deposition of cationic side chain and anionic main chain chromophoric NLO polyelectrolytes)

RN 219807-88-2 HCAPLUS

CN Glycine, N-ethyl-N-(4-formylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

OF 13 HCAPLUS COPYRIGHT 2003 ACS L14 ANSWER 7

ACCESSION NUMBER:

1999:90478 HCAPLUS

DOCUMENT NUMBER:

130:131715

TITLE:

Silver halide photographic emulsion layer having

enhanced sensitivity

INVENTOR(S):

Farid, Samir Yacoub; Gould, Ian Robert; Godleski,

Stephen A.; Lenhard, Jerome Robert; Muenter, Annabel

Adams; Zielinski, Paul A.

PATENT ASSIGNEE(S): SOURCE:

Eastman Kodak Company, USA Eur. Pat. Appl., 84 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 893732	A1	19990127	EP 1998-202340	19980713
000000				

EP 893732 20030122

> R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

JP 11102044 **A2** 19990413 JP 1998-211019 19980727 PRIORITY APPLN. INFO.: US 1997-900694 A 19970725

OTHER SOURCE(S):

MARPAT 130:131715

A photog. element comprises a support and at least one silver halide emulsion layer in which the silver halide is sensitized with a compd. of the formula QXY wherein Q represents the atoms necessary to form a chromophore comprising an amidinium, a carboxyl, or dipolar-amidic chromophoric system when conjugated with XY and XY is a fragmentable electron donor moiety in which X is an electron donor group and Y is a leaving group other than hydrogen, wherein XY has an oxidn. potential between 0 and about 1.4 V and the oxidized form of XY undergoes a bond cleavage reaction to give the radical X.cntdot. and the leaving fragment Y. In a preferred embodiment of the invention, the radical X.cntdot. has an oxidn. potential <-0.7V.

219807-88-2P

RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. and reaction in prepg. photog. sensitizer)

219807-88-2 HCAPLUS RN

CN Glycine, N-ethyl-N-(4-formylphenyl)-, ethyl ester (9CI) (CA INDEX NAME)

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2003 ACS L14 ANSWER

1

ACCESSION NUMBER:

1989:7795 HCAPLUS

DOCUMENT NUMBER:

110:7795

TITLE:

A promising material for nonlinear optics: observation

of second harmonic generation from

[N-(4-carboxypentyl)-N-methylamino]-4'-nitrostilbene-

coated substrates

AUTHOR(S):

Barton, John W.; Buhaenko, Michael; Moyle, Brian;

Ratcliffe, Norman M.

CORPORATE SOURCE: SOURCE:

Sch. Chem., Univ. Bristol, Bristol, BS8 1TS. UK

Journal of the Chemical Society, Chemical

Communications (1988), (7), 488-9 CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE:

Journal English

LANGUAGE:

CASREACT 110:7795

OTHER SOURCE(S):

Glass coated with p-O2NC6H4CH: CHC6H4[NMe(CH2)4CO2H]-p (prepd. in 4 steps from p-O2NC6H4Me) by the Langmuir-Blodgett technique gave a noncentrosym. material exhibiting 2nd harmonic generation, 1.06 to 0.53

.mu.m. IT 117846-69-2P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and Wadsworth-Emmons reaction of, with

[(diethoxyphosphoryl)methyl]nitrobenzene)

RN 117846-69-2 HCAPLUS

CN Pentanoic acid, 5-[(4-formylphenyl)methylamino]-, methyl ester (9CI) INDEX NAME)

$$\begin{array}{c|c}
O & Me \\
\parallel & \parallel \\
MeO-C-(CH_2)_4-N
\end{array}$$
CHO

L14 ANSWER (9) OF 13 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER:

1985:195053 HCAPLUS

DOCUMENT NUMBER:

102:195053

TITLE: INVENTOR(S): Photographic, photosensitive silver halide material Inoue, Nobuaki; Saeki, Naomi; Kojima, Tetsuro; Ikeda,

Tadashi

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd., Japan

SOURCE:

Ger. Offen., 44 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3406246	A1	19841018	DE 1984-3406246	19840221
JP 59154439	A2	19840903	JP 1983-27320	19830221
JP 04033021	B4	19920601		
JP 60064346	A 2	19850412	JP 1983-173675	19830920
PRIORITY APPLN. INFO.	:		JP 1983-27320	19830221
•			JP 1983-173675	19830920
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Dyes of the general formula I (R = C1-6 alkyl or alkoxy; R1, R2 = H)halogen, OH, CO2H, or their salts, SO3H or its salts, C1-6 alkyl, or alkoxy; R3,R4 = C1-6 alkyl; R5 = C1-6 alkyl or alkoxy; R6 = H, halogen, C1-6 alkyl, or alkoxy), which have an absorption max. at 470-520 nm, are used in antihalation and filter layers of photog. materials. During the prepn. and storage of the photog. materials, these dyes show little or no decompn. and have essentially no adverse effect on the inherent color sensitivity of the Ag halide grains. Thus, a gelatin-Ag(Br,Cl) emulsion (Br 5 mol.%; av. grain size 0.23 .mu.m) contg. NH4RhCl6 2 .times. 10-4 mol/mol Ag was coated at 4 g Ag/m2 on a cellulose triacetate support and then coated with a gelatin protective layer contg. II 90 mg/m2. A portion of the resultant material was sensitometrically exposed and developed to show a relative sensitivity of 93, a residual d. of 0.01, and excellent resistance to safety light vs. 63, 0.01, and excellent resistance to safety light for a control contq. III.

IT 94474-21-2

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with methylsulfophenylpyrazolone)

RN 94474-21-2 HCAPLUS

CNGlycine, N-ethyl-N-(4-formyl-3-methylphenyl)- (9CI) (CA INDEX NAME)

L14 ANSWER (10) OF 13 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1985:70113 HCAPLUS

DOCUMENT NUMBER:

102:70113

TITLE:

Direct-reversal silver halide photographic

photosensitive materials

PATENT ASSIGNEE(S): SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 59154439	A2	19840903		JP 1983-27320	19830221
JP 04033021	B4	19920601			
DE 3406246	A1	19841018		DE 1984-3406246	19840221
GB 2138961	A1	19841031		GB 1984-4504	19840221
GB 2138961	B2	19860924			
US 4756995 PRIORITY APPLN. INFO.:	Α	19880712		US 1985-800359	19851121
PRIORITY APPLN. INFO.:				1983-27320	19830221
				1983-173675	19830920
OMILED COLLEGE (C)			US	1984-581751	19840221

OTHER SOURCE(S):

CASREACT 102:70113

GI

$$\begin{array}{c|c}
R & R6 \\
N & CH & R6 \\
NR3R4 \\
R2 & R5 & R5
\end{array}$$

$$\begin{array}{c|c} & \text{Me} \\ & \text{N} \\ & \text{N} \\ & \text{CH} \\ & \text{N} \\ & \text{NEtCH}_2\text{CH}_2\text{NHSO}_2\text{Me} \\ & \text{KO}_3\text{S} \\ \end{array}$$

Direct-reversal Ag halide photog. photosensitive materials contain .gtoreq.1 dye of the formula I (R = C1-6 alkyl, C1-6 alkoxy; R1, R2 = H, halo, C1-6 alkyl, C1-6 alkoxy, OH, CO2M, SO3M; .gtoreq.1 of R1 and R2 is CO2M or SO3M; R3, R4 = C1-6 alkyl; R5 = C1-6 alkyl, C1-6 alkoxy; R6 = H, halo, C1-6 alkyl, C1-6 alkoxy; M = H, cation) having an absorption max. at 470-520 nm. The photog. materials can be handled easily under visible safelight (.gtoreq.450 nm) conditions. Thus, a photog. film support was coated with a direct-reversal AgBr emulsion and then coated with a gelatin protective layer contg. II (.lambda.max = 505 nm) to give a direct-reversal film, which showed very little decrease in the optical d. of images even after the film was handled under safelight

Ι

II

conditions for a extended period of time.

IT 94474-21-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with methyl(sulfophenyl)pyrazolone)

RN 94474-21-2 HCAPLUS

CN Glycine, N-ethyl-N-(4-formyl-3-methylphenyl)- (9CI) (CA INDEX NAME)

L14 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1984:112182 HCAPLUS

DOCUMENT NUMBER:

100:112182

TITLE: INVENTOR(S):

Photographic materials containing yellow filter dyes

Krueger, Spencer M.; Brown, James W., III

PATENT ASSIGNEE(S):

Eastman Kodak Co., USA

SOURCE:

U.S., 11 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4420555	Α	19831213	US 1982-399405	19820719
PRIORITY APPLN. INFO.	:		US 1982-399405	19820719

$$RSO_2NH \longrightarrow COC(CN) = CH \longrightarrow NR^2R^3$$

AB Photog. yellow filter dye which is easily bleached during processing steps comprises I (R = Cl-3 alkyl; Rl = H, Cl-3 alkyl; R2 and R3 = individually Cl-3 alkyl, at least 1 of which is terminated with R4OCO or R4CO2 where R4 = Cl-3 alkyl, Cl-3 fluoroalkyl). Thus, a photog. element was prepd. contg. a support, a green- and red-sensitive Ag halide emulsion layer, yellow filter dye layer, and blue-sensitive Ag halide emulsion layer. The filter layer was composed of a dye I (R = Et,; Rl = Me; R3,R4 = Me2CHOCOCH2) dispersed in a polymeric latex contg. poly(Me acrylate-tetrahydrofurfuryl methacrylate-2-acrylamido-2-methylpropanesulfonic acid) Na salt at a ratio 1:2 wt. parts to provide a

Ι

coating of 0.16 g dye/m2. The element was imagewise exposed and processed to give .DELTA.Dmin (representing a background d. attributed to residual yellow filter dye remaining in the element) of +0.04 vs. +0.64 for a filter dye layer-free control.

IT 88881-70-3P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in prepn. of photog. yellow filter dye)

88881-70-3 HCAPLUS RN

CN .beta.-Alanine, N-ethyl-N-(4-formyl-3-methylphenyl)-, 1-methylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
O & \text{Et} \\
i-\text{PrO-C-CH}_2-\text{CH}_2-N \\
& \\
\text{Me}
\end{array}$$
CHO

IT 88881-66-7P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction with aminobenzoylacetonitrile, in prepn. of photog. yellow filter dye)
88881-66-7 HCAPLUS

RN

Glycine, N-ethyl-N-(4-formyl-3-methylphenyl)-, 2,2,2-trifluoroethyl ester CN (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \text{Et} \\ \parallel & \parallel \\ \text{F}_3\text{C}-\text{CH}_2-\text{O}-\text{C}-\text{CH}_2-\text{N} \\ & & \text{CHO} \end{array}$$

L14 ANSWER (12) OF 13 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1976:172199 HCAPLUS

DOCUMENT NUMBER: 84:172199

TITLE: Light-sensitive photographic material

INVENTOR(S): Riester, Oskar; Kampfer, Helmut; Hase, Marie;

Oehlschlaeger, Hans

Agfa-Gevaert A.-G., Fed. Rep. Ger. PATENT ASSIGNEE(S):

Ger. Offen., 18 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
*				
DE 2433072	A1	19760122	DE 1974-2433072	19740710
PRIORITY APPLN. INFO.	:		DE 1974-2433072	19740710
GT				

$$R^1$$
 R^2
 R^3
 R^3
 R^3
 R^3
 R^3

AΒ Silver-free light-sensitive photog. recording materials having high light sensitivity and giving intensely colored images are composed of a support coated with a layer contg. a triazolium salt (I; R = Ph, p-HOC6H4; R1 = H, NO2, MeO, or R1R2 together form a benzene ring; R2 = Hor R2R1 together form a benzene ring; R3 = H, C1, MeO, NO2, or a heterocycle nucleus; X- = anion), a carboxylic acid, such as phenylglycine, .alpha.-anilinoisobutyric acid, phenylaminodiphenylacetic acid, N-(4-formylphenyl)-N-methylaminoacetic acid, and the like, and a binder. Thus, to a soln. contg. I (R = Ph; R1, R2 = H; R3 = 5-methyl-2-benzothiazolyl) 0.4 g, MeO 10, and 10% aq. gelatin 30 ml was added a soln. contg. phenylglycine 0.5, MeOH 5, and 10% aq. gelatin 20 ml with stirring. To this soln. was then added 10% poly(vinylpyrrolidone) 10 ml and 7.5% saponin 1.5 ml and the vol. brought up to 100 ml by the addn. of water. A photog. paper was then coated with this soln., dried, and exposed behind a .sqroot.2 step wedge with a 500 W lamp at 10 cm for 3 min to give an intense red image with 15 steps.

IT 59081-62-8

RL: USES (Uses)

(photog. silver-free emulsions contq. triazolium salts and)

RN 59081-62-8 HCAPLUS

CN Glycine, N-(4-formylphenyl)-N-methyl- (9CI) (CA INDEX NAME)

L14 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1962:429590. HCAPLUS

DOCUMENT NUMBER: 57:29590

ORIGINAL REFERENCE NO.: 57:5890d-i,5891a-b

ORIGINAL REFERENCE NO.: 37:30900-1,30918-0

TITLE: Variations of alkyl groups in 4-(4-dialkylaminostyryl)quinolines

AUTHOR(S):

Bahner, Carl Tabb; Rives, Lydia Moore; Senter, Emma Brown; Longmire, Win.; Kinder, Harold; Bales, Dorothy Bettis; Harman, Fred; Pettyjohn, Bobby; Easley, Wm.

K.; Free, Lovely; Free, Hugh

CORPORATE SOURCE:

SOURCE:

Carson-Newman Coll., Jefferson City, TN J. Org. Chem. (1962), 27, 2233-6

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

Dihexyl-, diheptyl-, dioctyl-, and diisopropylaniline were prepd. by alkylating PhNH2 with the appropriate halides. The dialkylaminoalkylanilines were prepd. by refluxing an amyl alc. soln. of the appropriate dialkylaminoalkyl chloride and the aniline over anhyd. Na2CO3. The aldehydes were converted into styrylquinolines by heating with lepidine-HCl. The solid styrylquinolines were purified by recrystn. from isohexane or mixed octanes. In addn., chromatography on silica gel or Al203 and purification by conversion to the salts were used. The dark red salts were prepd. by mixing coned, alc. solns. of the acid and base, cooled, filtered off, and recrystd. Lepidine picrate (3.7 g.) and 2.5 g. 4-[N,N-bis(2-chloroethyl)amino] benzaldehyde were heated 1.5 hrs. at 150-60.degree.; the solid in hot HCONMe2 gave 2.7 g. crude product and further recrystn. gave 1.3 g. 4-[4-[N,N-bis(2chloroethyl)amino]styryl] quinoline, m. 241.degree.; picrate, m. 115-16.degree.. A mole-to-mole mixt. of 4-aminostyryl base and the aldehyde heated 10-20 min. without solvent (method A) or in a min. vol. of MeOH (method B), or the aldehyde added slowly with stirring at 110.degree. to a soln. of the amine in a min. of HCONMe2, then heated 15 min. at 120-30.degree. (method C). The crude product was pptd. by addn. of H2O and cryst. from octane or MeOH. The following 4-(4-aminostyryl) quinolines were obtained (alkyl group(s) on amino N, m.p., reaction time in hrs., and % yield given): Pr2, 76-7.degree., 1.5, 33; diallyl, 82.0-3.5.degree., 1.5, 13; Bu2, 81-3.degree., 2, 23; diisobutyl, 94.5. 5.0% 2, -; di-sec-Bu, 96.0-6.5.degree., 3.5, - (picrate m. 2312.degree.); di-Am, 88-9.degree., 2, 14 (picrate, m. 186.degree.); dihexyl, 23.05.5.degree., 2, - (picrate m. 185.6.degree.; maleate m. 133.degree.; fumarate m. 112.degree.); diheptyl, oil, 1, 26 (picrate m. 181.degree.; maleate m. 115.degree.); dioctyl, oil, 1.5, 31 (picrate m. 159-60.degree.; fumarate m. 104.degree.); dinonyl, oil, 4, - (maleate m. 103.degree.); didecyl, oil, 5, 50 (maleate m. 106 7.degree.); dioctadecyl, 52-3.degree., 6, 14; dibenzyl, 99-100.degree., 1, 8; N-benzyl-N-methyl, 118.0-18.5% 15.5, 8; N-methyl, 137-8.degree., 1, 26; N-Bu, 128-30.degree.m 2, -; N-hexyl, 97-8.degree., 2, 2; N-heptyl, 98-9.degree., 1, 0.4; N-octyl, 112-13.degree., 1.5, 2; N-methyl-N-(2-diethylaminoethyl), 545.degree., 3, 12 (picrate m. 22.5-6.degree.); N-ethyl-N-(2-diethylaminoethyl), 72-3% 7, 20; N-ethyl-N-(3-dimethylaminopropyl), -, 3, 10 (picrate m. 239-40.degree.); N-methyl-N-carboxymethyl, 236-7.degree., 3, 20; N-butyl-N-(2-cyanoethyl), 115-16.degree., 3, 70; N-butyl-N-(2carboxyethyl), 181-2.degree., 0.5, 52. 4-(4-Aminostyryl)quinoline maleate m. 180.degree.; maleate m. 183.degree.; fumarate m. 200.degree.. The following 1-(4-aminostyryl)isoquinolines were obtained (alkyl group on amino N, m.p., reaction time in hrs., and % yield given): none, 196.77.7.degree., 2, 28; N-benzyl-N-ethyl, 118.0-19.5.degree., 2, 8. following Schiff bases from 4-(4-aminostyryl)quinoline and aldehyde were obtained (aldehyde, m.p. product, method, and % yield given): 2-thiophenecarboxaldehyde, 132.degree., A, 58; 2-furfuraldehyde, 125.degree. A, 8; 3,4-diethoxylaenzaldehyde, 147.degree., A, 73; 4-dimethylamino-3-methylbenzaldehyde, 114.degree., A, 41;

Glycine, N-(4-formylphenyl)-N-methyl- (9CI) (CA INDEX NAME)

CN

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PATENT INFORMATION:

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5433492 SEA FILE=REGISTRY ABB=ON PLU=ON 46.150.18/RID AND N/ELS AND
L1
                O>1 AND NC=1 AND NR>1 NOT PMS/CI
L3
                STR
   <sup>7</sup> сн<u></u> ⊖ о
        8
   2
       10 12 13
11
NODE ATTRIBUTES:
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CONNECT IS E2
               RC AT
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CONNECT IS E2
               RC AT
                       4
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               RC AT
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                      10
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RSPEC
      1
NUMBER OF NODES IS 13
STEREO ATTRIBUTES: NONE
L5
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                MICROARRAY OR ARRAY OR IMMOBIL?)
=> d ibib abs hitstr hitind 1-2
L9 ANSWER (1) OF 2 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER:
                         2002:315405 HCAPLUS
DOCUMENT NUMBER:
                         136:321706
TITLE:
                         Method of assaying pyrrole-containing biological
                         compounds
INVENTOR(S):
                         Brady Jeffrey D.; Robins, Simon P.
PATENT ASSIGNEE(S):
                         UK
                         U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S.
SOURCE:
                         Ser. No. 679,141.
                         CODEN: USXXCO
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
                         2
```

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002048779 A1 20020425 US 2001-970328 20011003

PRIORITY APPLN. INFO: US 2000-679141 A2 20001003

OTHER SOURCE(S): MARPAT 136:321706

AB This invention concerns a method of assaying pyrrole-contg. biol. compds. and chem. compns. that can be used in the method. The method involves contacting a biol. compd. with one of: (a) a bound or bind-able derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a detectable mol. which forms a complex with the reaction product; or (b) a derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a bound binding agent specific to the biol. compd. in the reaction product; or (c) a binding agent specific to the biol. compd., followed by exposure to a derivatizing agent which forms a reaction product with the biol. compd., and detg. the amt. of bound biol. compd. There is also provided a method of prepg. an antigen.

IT 359766-88-4P, 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro 2-oxo-, (3aS,4S,6aR)- 406679-68-3P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
 (Analytical study); PREP (Preparation); USES (Uses)
 (method of assaying pyrrole-contg. biol. compds.)

RN 359766-88-4 HCAPLUS
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

__ CHO

RN 406679-68-3 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[18-(4-formylphenyl)-6,15-dioxo-10,11-dithia-7,14,18-triazanonadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

IC ICM G01N033-53

ICS G01N033-537; G01N033-543

NCL 435007920

CC 9-14 (Biochemical Methods)

ST assaying pyrrole biol compd; pyrrole peptide label antibody

immobilization bone digestion HPLC MALDI

IT Bone

Digestion, chemical Fluorescent substances

HPLC

Immobilization, molecular

Immunoassay

Labels

Solutions

(method of assaying pyrrole-contg. biol. compds.)

IT 27425-56-5P, .beta.-Alanine, N-(4-formylphenyl)-N-methyl-

359766-88-4P, 1H-Thieno[3,4-d]imidazole-4-pentanamide,

N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-

2-oxo-, (3aS, 4S, 6aR) - 406679-68-3P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST

(Analytical study); PREP (Preparation); USES (Uses)

(method of assaying pyrrole-contg. biol. compds.)

L9 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:276274 HCAPLUS

DOCUMENT NUMBER: 136:275711

TITLE: Method of assaying pyrrole-containing biological

compounds

INVENTOR(S):

Brady, Jeffrey D.; Robins, Simon P.

PATENT ASSIGNEE(S): Rowett Research Institute, UK

SOURCE:

PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

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PATENT NO.
                       KIND
                              DATE
                                             APPLICATION NO.
                                                                DATE
                              -----
                                              WO 2001-GB4377
     WO 2002029409
                        A2
                              20020411
                                                                 20011002
     WO 2002029409
                        A3
                              20020801
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
              PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
              US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
              DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     AU 2001093964
                        Α5
                            20020415
                                             AU 2001-93964
                                                                20011002
PRIORITY APPLN. INFO.:
                                           US 2000<u>-679</u>141
                                                             A 20001003
                                           WO 2001-GB4377
                                                             W
                                                                20011002
```

OTHER SOURCE(S): MARPAT 136:275711

AB The invention concerns a method of assaying pyrrole-contg. biol. compds. and chem. compns. that can be used in the method. The method involves contacting a biol. compd. with one of: (a) a bound or bind-able derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a detectable mol. which forms a complex with the reaction product; or (b) a derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a bound binding agent specific to the biol. compd. in the reaction product; or (c) a binding agent specific to the biol. compd., followed by exposure to a derivatizing agent which forms a reaction product with the biol. compd., and detg. the amt. of bound biol. compd. There is also provided a method of prepg. an antigen.

IT 359766-88-4P 406679-68-3P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (method of assaying pyrrole-contg. biol. compds.)

RN 359766-88-4 HCAPLUS

CN lH-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

__ CHO

RN 406679-68-3 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[18-(4-formylphenyl)-6,15-dioxo-10,11-dithia-7,14,18-triazanonadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

.PAGE 1-B

IC ICM G01N033-53

CC 9-14 (Biochemical Methods)

ST pyrrole peptide label antibody immobilization bone digestion HPLC MALDI

IT Bone

Digestion, chemical

Fluorescent substances

HPTC

Immobilization, molecular

Immunoassay

Labels

Solutions

(method of assaying pyrrole-contg. biol. compds.)

IT 27425-56-5P 359766-88-4P 406679-68-3P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (method of assaying pyrrole-contg. biol. compds.)

STR

CAMMI. ~ 1

NODE ATTRIBUTES:

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CONNECT IS E2 RC AT 5
CONNECT IS E2 RC AT 10
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE L5 STR

NODE ATTRIBUTES:

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GRAPH ATTRIBUTES:

RSPEC 1

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

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L8 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2002:315405 HCAPLUS

DOCUMENT NUMBER:

136:321706

TITLE:

Method of assaying pyrrole-containing biological

compounds

INVENTOR(S):

Brady, Jeffrey D.; Robins, Simon P.

PATENT ASSIGNEE(S):

UK

SOURCE:

U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S.

Ser. No. 679,141.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002048779 A1 20020425 US 2001-970328 20011003
PRIORITY APPLN. INFO.: US 2000-679141 A2 20001003

OTHER SOURCE(S):

MARPAT 136:321706

AB This invention concerns a method of assaying pyrrole-contg. biol. compds. and chem. compns. that can be used in the method. The method involves contacting a biol. compd. with one of: (a) a bound or bind-able derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a detectable mol. which forms a complex with the reaction product; or (b) a derivatizing agent which forms a reaction product with the biol. compd., followed by exposure to a bound binding agent specific to the biol. compd. in the reaction product; or (c) a binding agent specific to the biol. compd., followed by exposure to a derivatizing agent which forms a reaction product with the biol. compd., and detg. the amt. of bound biol. compd. There is also provided a method of prepg. an antigen.

IT 359766-88-4P, 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro 2-oxo-, (3aS,4S,6aR)- 406679-68-3P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST
 (Analytical study); PREP (Preparation); USES (Uses)

RN 359766-88-4 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

(method of assaying pyrrole-contg. biol. compds.)

Absolute stereochemistry.

PAGE 1-A

O HN S S S (CH2) 4 N (CH2) 5 N Me

PAGE 1-B

__ CHO

RN 406679-68-3 HCAPLUS

1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[18-(4-formylphenyl)-6,15-dioxo-CN 10,11-dithia-7,14,18-triazanonadec-1-yl]hexahydro-2-oxo-, (3aS,4S,6aR)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

$$\begin{array}{c|c}
 & H & H \\
\hline
N & R & S \\
H & S & S \\
\hline
H & (CH2)4 & N & (CH2)5 & H \\
H & O & S & S & S \\
\end{array}$$

PAGE 1-B

P8 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:276274 HCAPLUS

DOCUMENT NUMBER:

136:275711

TITLE:

Method of assaying pyrrole-containing biological

compounds

INVENTOR(S):

Rowett Research Institute, UK

PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 68 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

Patent

LANGUAGE:

English 2

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002029409	A2	20020411	WO 2001-GB4377	20011002
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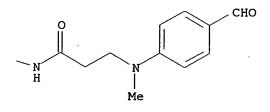
Searched by Paul Schulwitz (703)305-1954

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B



L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:429765 HCAPLUS

DOCUMENT NUMBER: 1

135:238201

TITLE:

SOURCE:

Structural characterization of pyrrolic cross-links in

collagen using a biotinylated Ehrlich's reagent

AUTHOR(S):

Brady, Jaffrey D.; Robins, Simon P.

CORPORATE SOURCE:

Rowett Research Institute, Aberdeen, AB21 9SB, UK Journal of Biological Chemistry (2001) 276(22),

18812-18818

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER:

American Society for Biochemistry and Molecular

Biology

DOCUMENT TYPE:

Journal English

LANGUAGE: OTHER SOURCE(S):

CASREACT 135:238201

The structures of pyrrolic forms of cross-links in collagen have been confirmed by reacting collagen peptides with a biotinylated Ehrlich's reagent. This reagent was synthesized by converting the cyano group of N-methyl-N-cyanoethyl-4-aminobenzaldehyde to a carboxylic acid, followed by conjugation with biotin pentylamine. Derivatization of peptides from bone collagen both stabilized the pyrroles and facilitated selective isolation of the pyrrole-contg. peptides using a monomeric avidin column. Reactivity of the biotinylated reagent with collagen peptides was similar to that of the std. Ehrlich reagent, but heat denaturation of the tissue before enzyme digestion resulted in the loss of about 50% of the pyrrole cross-links. Identification of a series of peptides by mass spectrometry confirmed the presence of derivatized pyrrole structures combined with between 1 and 16 amino acid residues. Almost all of the pyrrole-contg. peptides appeared to be derived from N-terminal telopeptide sequences, and

the nonhydroxylated (lysine-derived) form predominated over pyrrole cross-links derived from helical hydroxylysine.

IT 359766-88-4P

RL: MSC (Miscellaneous); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent)

RN 359766-88-4 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

__ CHO

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT